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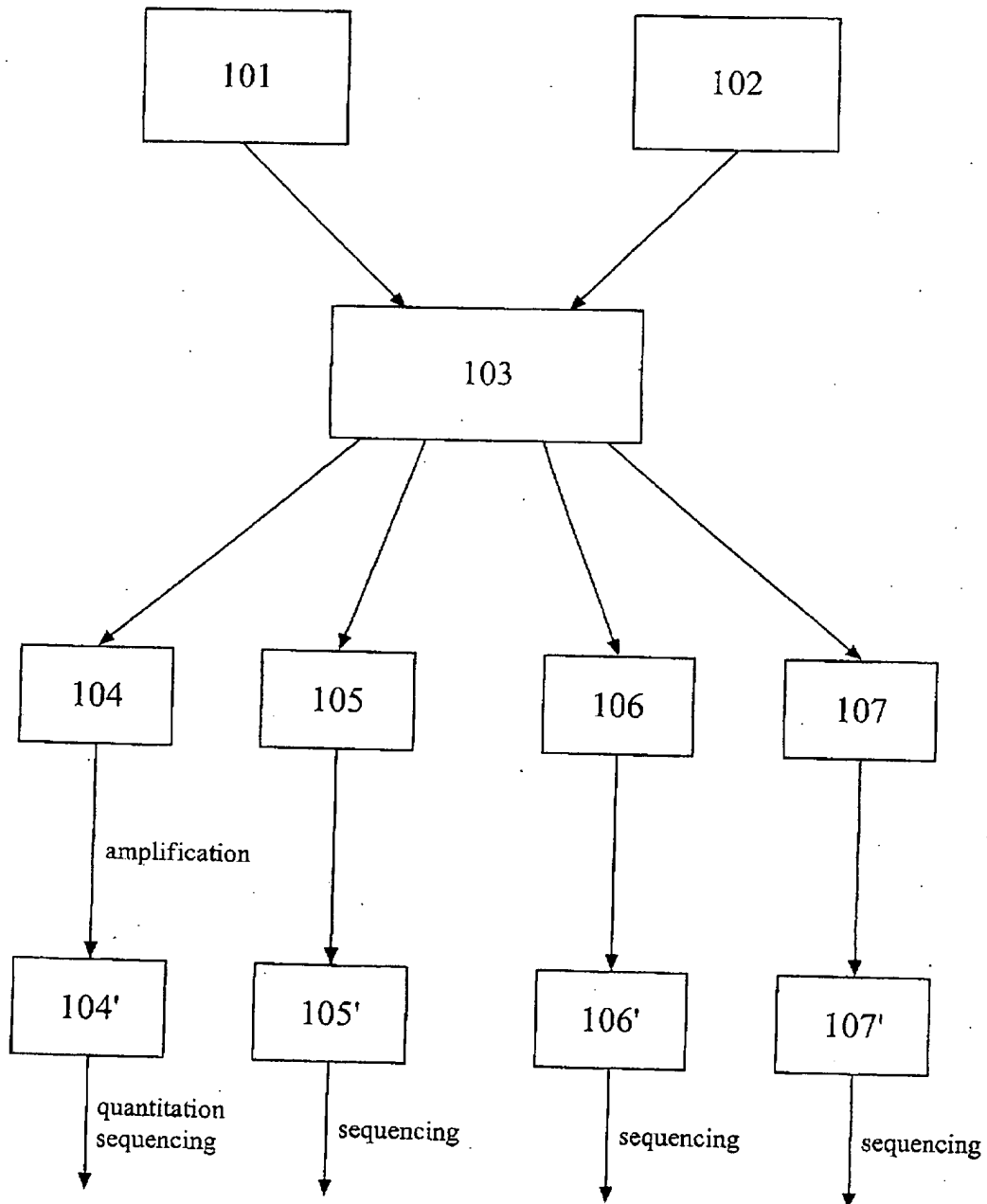


FIG. 1



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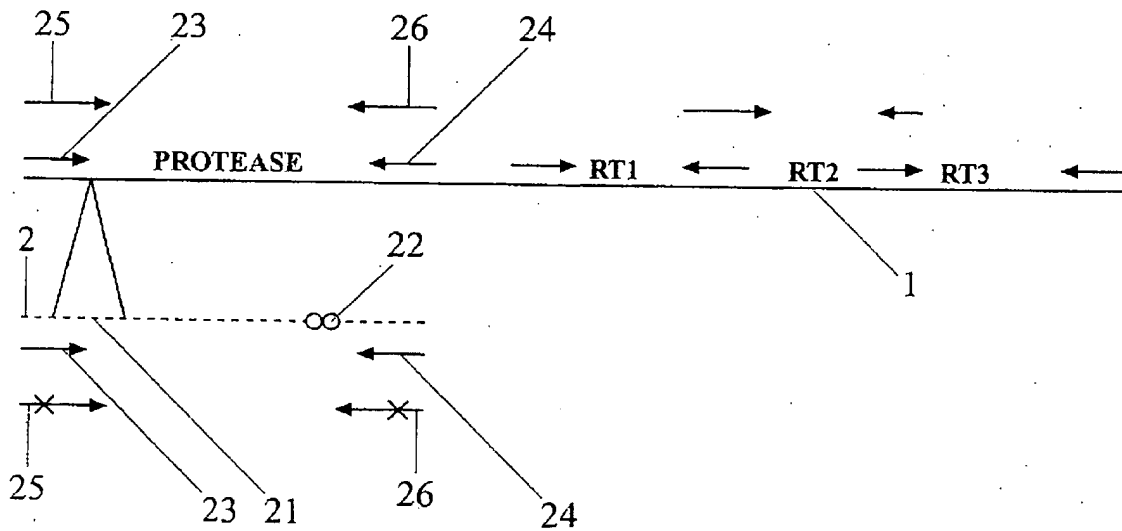


FIG. 2A

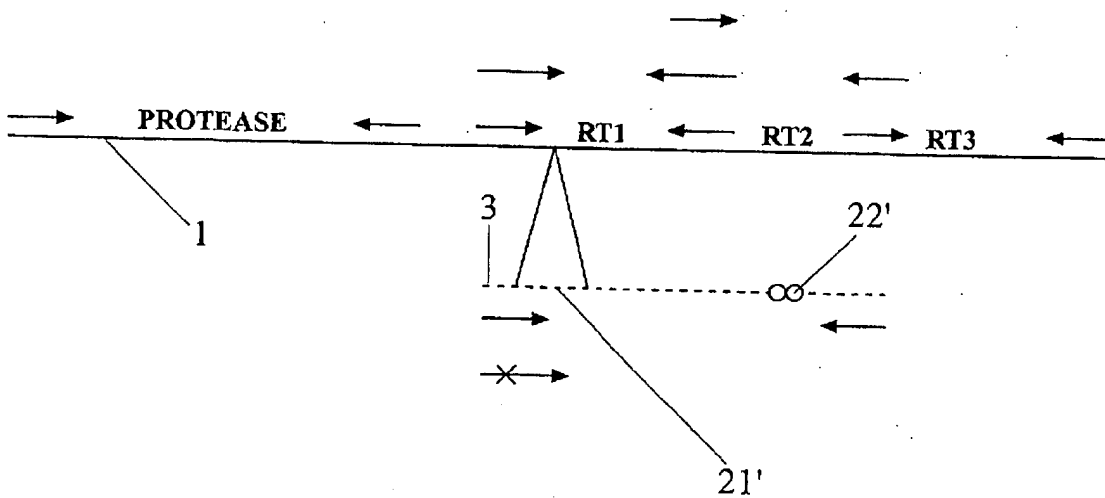


FIG. 2B



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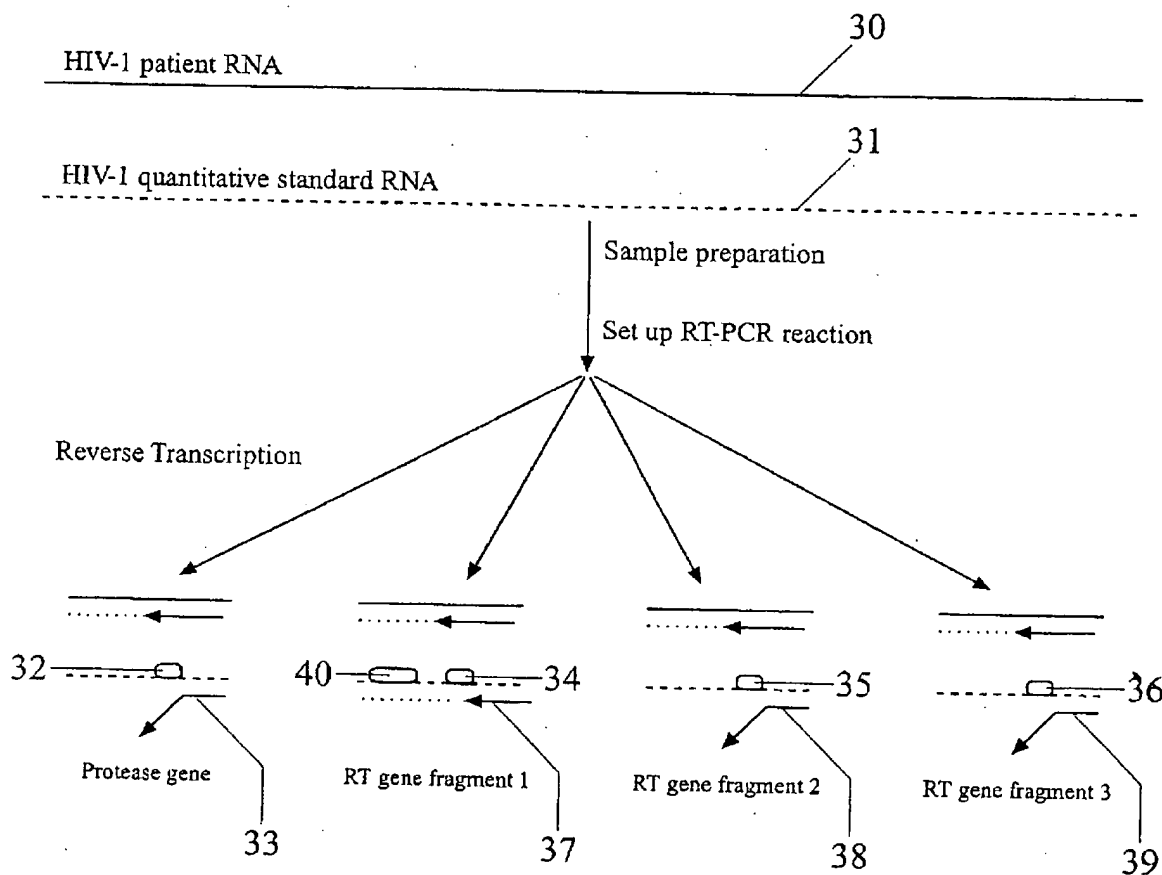


FIG. 3A

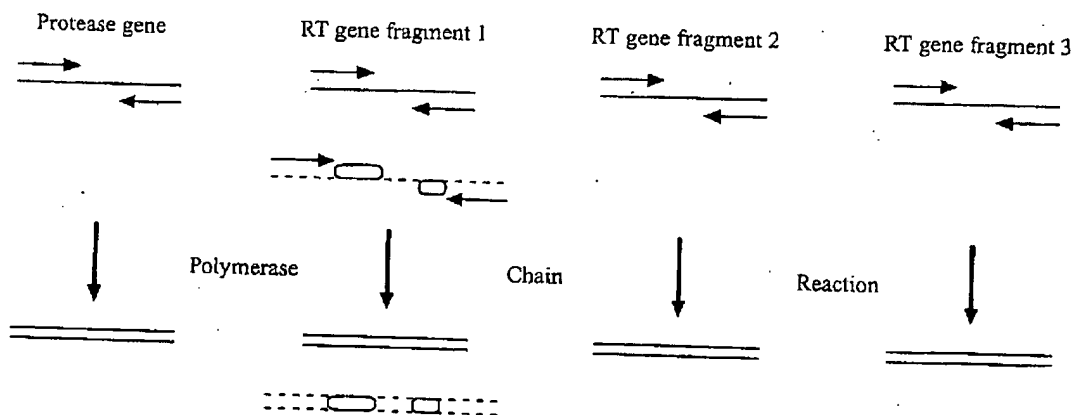


FIG. 3B



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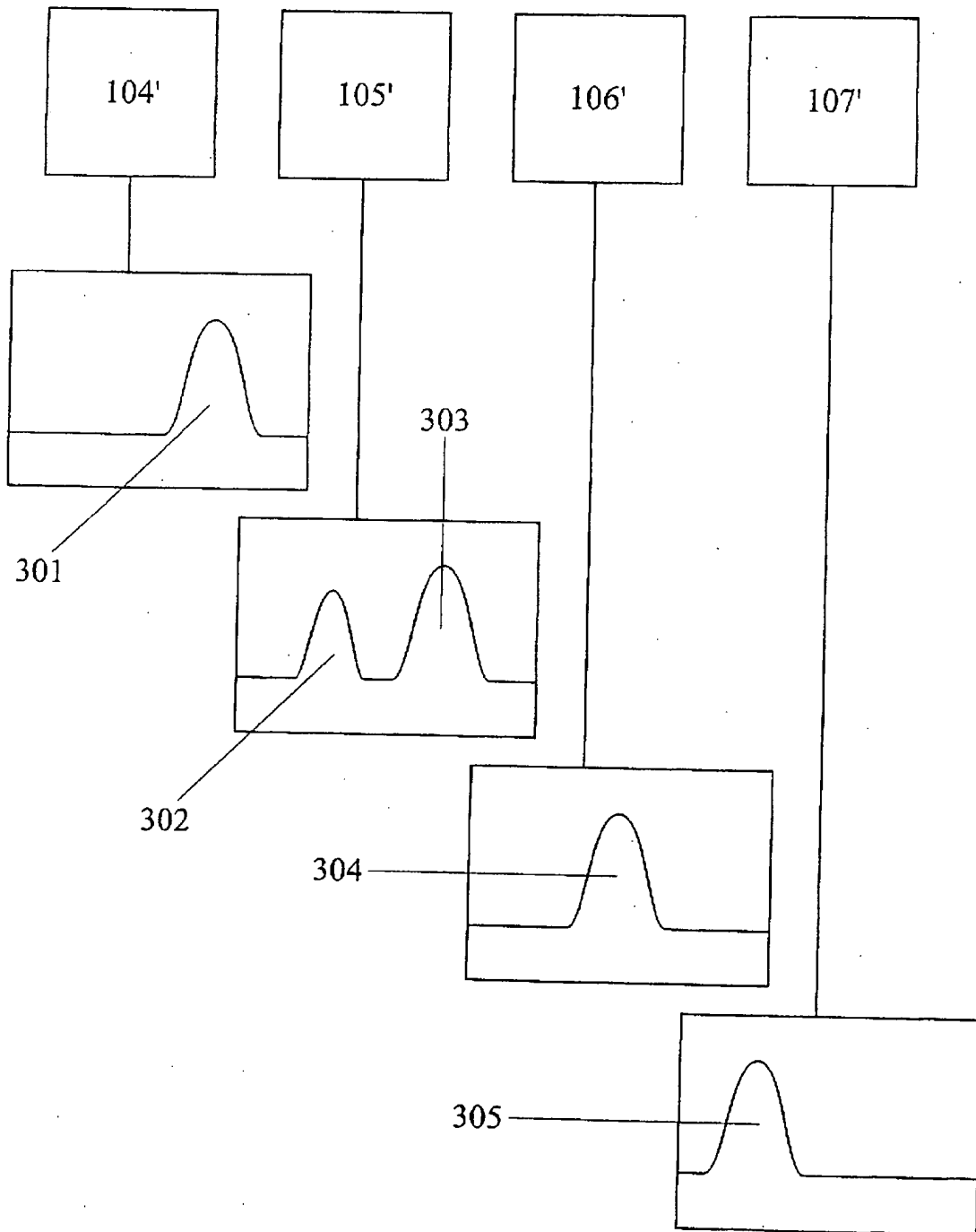


FIG. 3C



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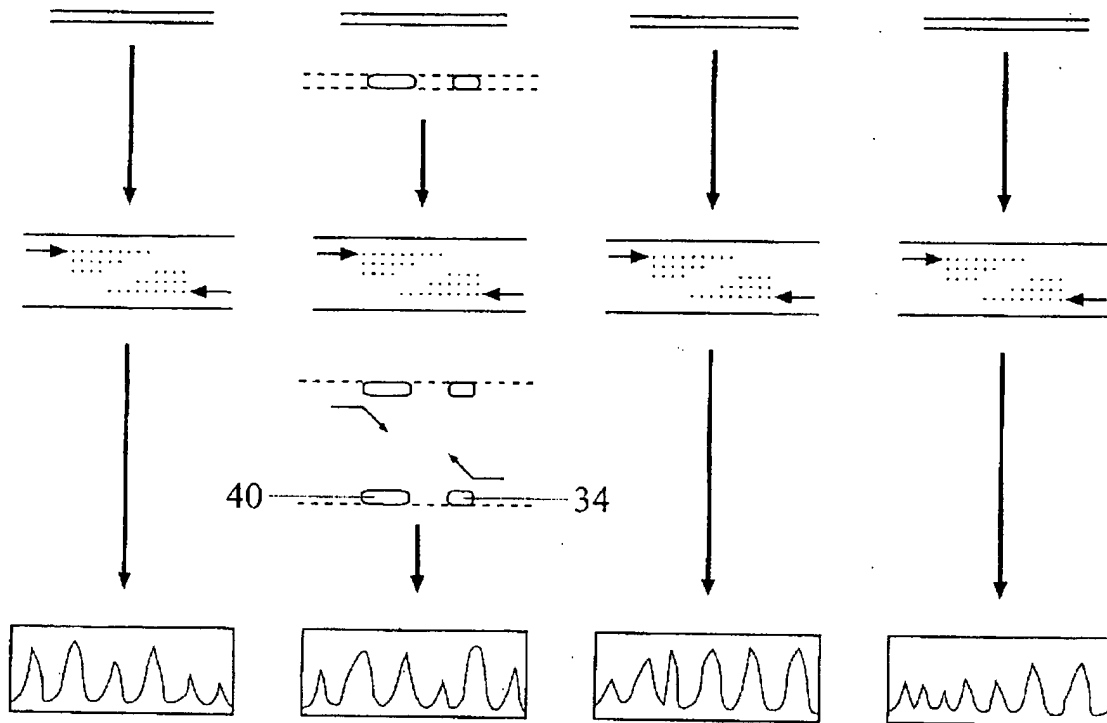


FIG. 3D

Not I restriction site for linearizing pBKBH10S for production of ~9 kb cRNA transcripts

T7 Promoter - used by T7 RNA polymerase to transcribe sense strand HIV-1 RNA sequences.

+1

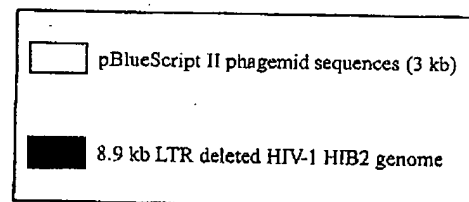
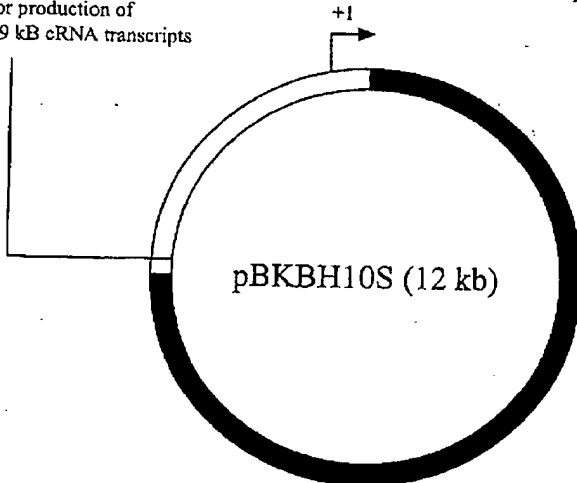


FIG. 4



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5' to 3' direction of HIV-1 sense sequence →

RT562F-A primer (for sequencing)

RT558F primer (for RT-PCR)

5' aaaggttaacaatggccattgacag aagaaaaataaaagcattagtagaaattgtacagagatggaaaagga 3' base pairs
 3' ttttcaatttgttacggtaactgtc ttcttttttattttcgtaatcatctttaacatgtctctaccttttcc 5' 2606 to 2680

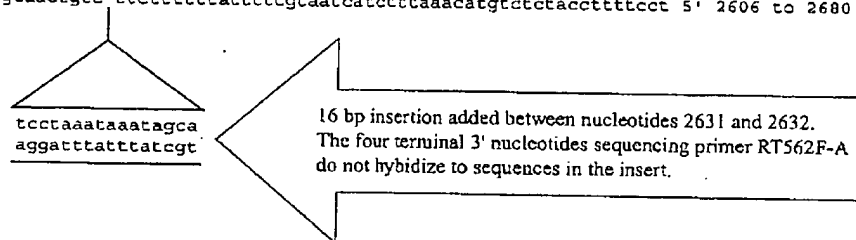


FIG. 5

5' to 3' direction of HIV-1 sense sequence →

gg → cc
 cc 3007/8 gg

Mutagenesis of nucleotides 3007 and 3008 to prevent primer extension of RT959R sequencing primer

5' tcagtacaatgtgcttccacaggat gg aaaggatcacagcaatatccaaagtagc base pairs
 3' agtcattgttacacgaagggtgcccta cc ttctctagtggtcgttataagggttctatcg 2981 to 3038

RT964-2-R primer (for RT-PCR)

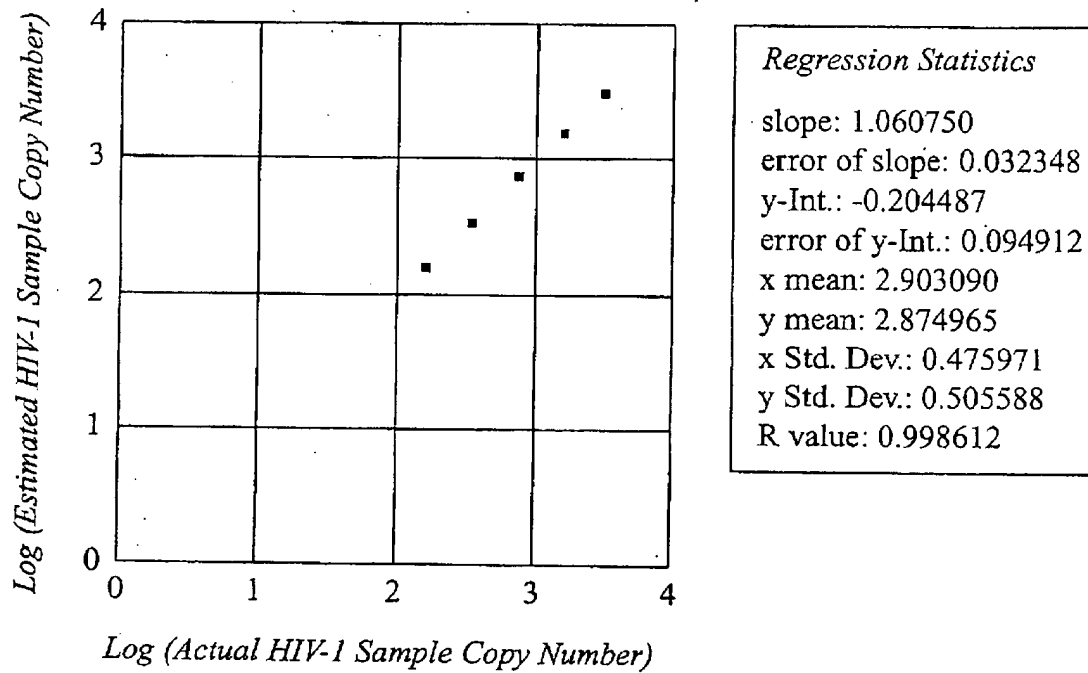
RT959R primer (for sequencing)

FIG. 6



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Estimated vs. Actual HIV-1 Sample Copy Number

**FIG. 7**